



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L18-9TC-DIM-UNV-OW-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20343.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"ALUM SEMI-SPEC TRIM w/FROST FILM

[MORE] ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L18-9TC-DIM-UNV-OW-OF-CS

[LAMPCAT] ARRAYA TUNABLE LED

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 1732            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 43              |
| Total Luminaire Watts           | 40.1            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 0.88            |
| Spacing Criterion (90-270)      | 0.86            |
| Spacing Criterion (Diagonal)    | 0.90            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 0.50 ft         |
| Luminous Width (90-270)         | 0.50 ft         |
| Luminous Height                 | 0.00 ft         |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 8490             | 13170             | 8272              |
| 55                  | 1208             | 2147              | 1208              |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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CANDELA TABULATION

|           | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>  | 1995.021   | 1995.021    | 1995.021    | 1995.021    | 1995.021    |
| <b>5</b>  | 1980.707   | 1978.023    | 1968.182    | 1961.919    | 1960.130    |
| <b>10</b> | 1875.141   | 1882.298    | 1877.824    | 1864.405    | 1861.721    |
| <b>15</b> | 1700.688   | 1706.950    | 1704.267    | 1694.426    | 1688.163    |
| <b>20</b> | 1481.504   | 1479.715    | 1487.767    | 1477.926    | 1472.558    |
| <b>25</b> | 1187.171   | 1221.167    | 1231.903    | 1205.064    | 1169.279    |
| <b>30</b> | 822.163    | 857.054     | 932.202     | 861.527     | 829.320     |
| <b>35</b> | 488.467    | 565.405     | 670.076     | 543.039     | 476.837     |
| <b>40</b> | 280.913    | 308.647     | 418.686     | 296.122     | 276.440     |
| <b>45</b> | 139.562    | 165.506     | 216.500     | 168.190     | 135.983     |
| <b>50</b> | 56.362     | 68.886      | 89.463      | 67.097      | 55.467      |
| <b>55</b> | 16.103     | 22.366      | 28.628      | 23.260      | 16.103      |
| <b>60</b> | 1.789      | 2.684       | 6.262       | 2.684       | 0.895       |
| <b>65</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>70</b> | 0.000      | 0.895       | 0.000       | 0.000       | 0.000       |
| <b>75</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>80</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>85</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 658.96  | N.A.  | 38.00  |
| 0-30    | 1204.06 | N.A.  | 69.50  |
| 0-40    | 1563.92 | N.A.  | 90.30  |
| 0-60    | 1731.18 | N.A.  | 99.90  |
| 0-80    | 1732.08 | N.A.  | 100.00 |
| 0-90    | 1732.08 | N.A.  | 100.00 |
| 10-90   | 1547.22 | N.A.  | 89.30  |
| 20-40   | 904.96  | N.A.  | 52.20  |
| 20-50   | 1046.04 | N.A.  | 60.40  |
| 40-70   | 168.11  | N.A.  | 9.70   |
| 60-80   | 0.90    | N.A.  | 0.10   |
| 70-80   | 0.06    | N.A.  | 0.00   |
| 80-90   | 0.00    | N.A.  | 0.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 1732.08 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 184.87 |
| 10-20   | 474.09 |
| 20-30   | 545.10 |
| 30-40   | 359.86 |
| 40-50   | 141.09 |
| 50-60   | 26.18  |
| 60-70   | 0.85   |
| 70-80   | 0.06   |
| 80-90   | 0.00   |
| 90-100  | 0.00   |
| 100-110 | 0.00   |
| 110-120 | 0.00   |
| 120-130 | 0.00   |
| 130-140 | 0.00   |
| 140-150 | 0.00   |
| 150-160 | 0.00   |
| 160-170 | 0.00   |
| 170-180 | 0.00   |

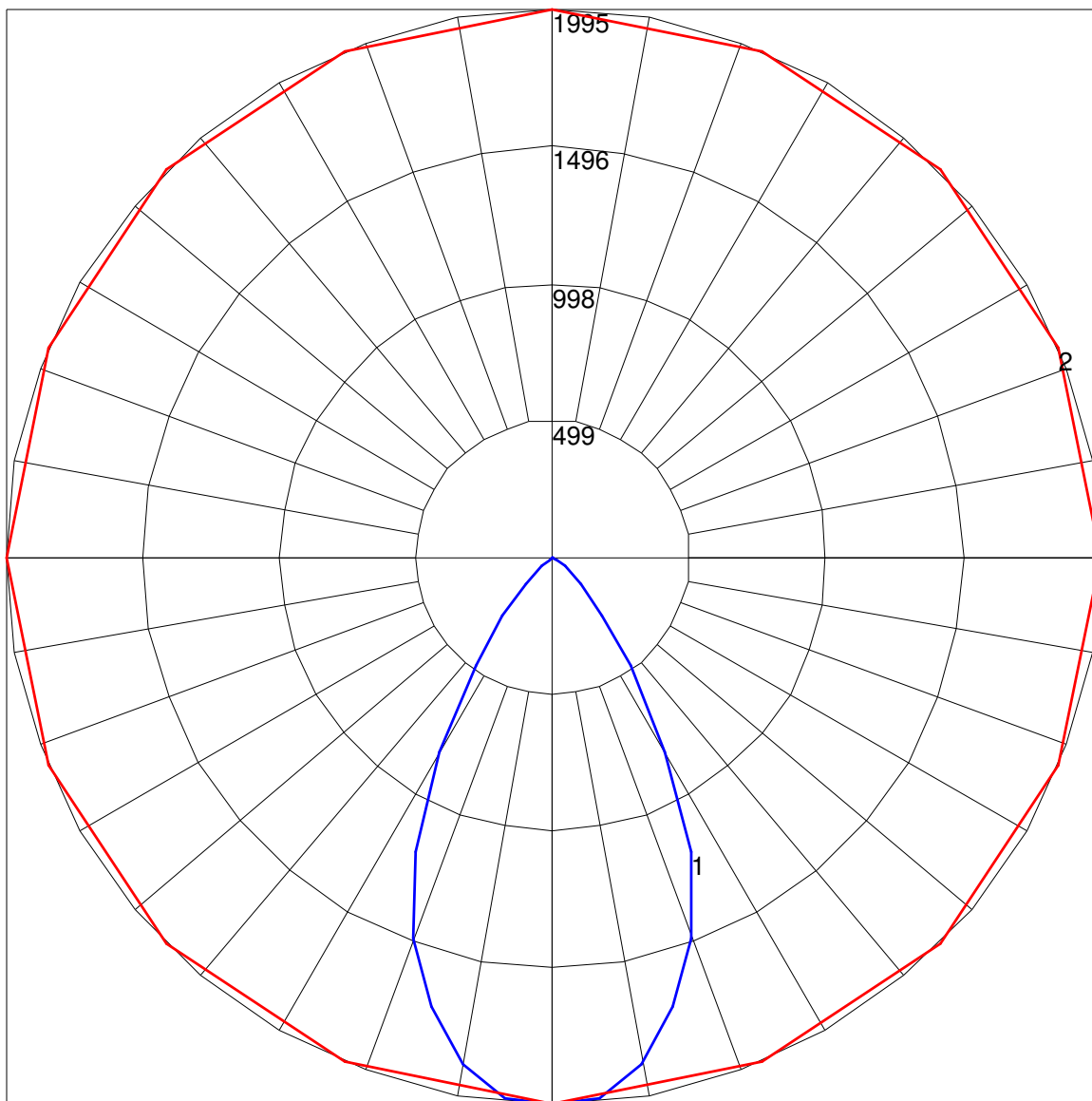
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 94  | 98  | 95  | 92  | 95  | 93  | 90  | 92  | 90  | 89  | 87  |
| 3  | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 89  | 86  | 84  | 87  | 85  | 82  | 81  |
| 4  | 97  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |
| 5  | 92  | 84  | 78  | 73  | 90  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |
| 6  | 87  | 78  | 72  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 67  | 75  | 70  | 67  | 73  | 70  | 66  | 65  |
| 7  | 83  | 74  | 68  | 63  | 82  | 73  | 67  | 63  | 72  | 67  | 63  | 71  | 66  | 63  | 69  | 65  | 62  | 61  |
| 8  | 79  | 69  | 63  | 59  | 78  | 69  | 63  | 59  | 68  | 62  | 59  | 67  | 62  | 59  | 66  | 61  | 58  | 57  |
| 9  | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 53  |
| 10 | 72  | 62  | 56  | 52  | 71  | 61  | 56  | 52  | 61  | 55  | 52  | 60  | 55  | 52  | 59  | 55  | 52  | 50  |

POLAR GRAPH



Maximum Candela = 1995.021 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)